

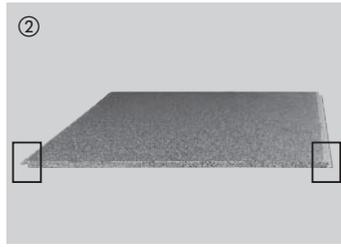
Laying instructions for Celenio ComforTec

Attention: Read thoroughly from beginning to end before installation!

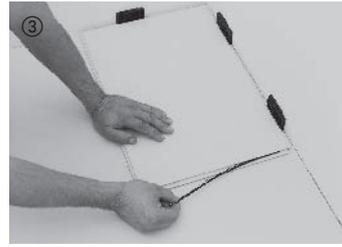
Please always comply with the laying instructions that are enclosed with the cartons. The accompanying instructions are binding!



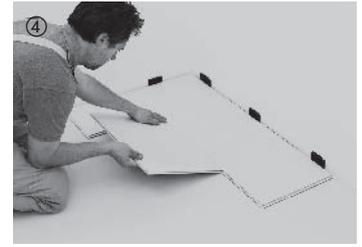
Installation tools: tapping block, wedges, pencil, saw, and maybe the unlocking help system.



Cross section of long side
Tongue side / Groove side



Starting in the left-hand corner of the room, lay the first board and fix it in place with wall spacers or plastic spacers without removing the protective film (always keep an expansion gap by the wall of 10-15 mm). Always lay the boards with the tongue side to the wall. For future removal of the first two rows, remove the plastic dampener from the short side of the boards and keep it.



The first two rows are laid together in a ladder formation, starting from the left. Be sure to offset them at the ends by at least 18 cm. The boards of the first row are now rotated downward into the already installed boards, short sides first. The boards of the second row are now lowered and connected with light pressure into the already installed row along their long sides. The protective film on the board backing is **not** removed for the first two rows.



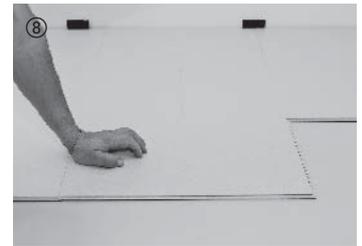
Cut the last board of the first row to size, leaving an expansion gap of 10-15 mm (3/8" - 1/2") between the board and wall. Fit in the board. Start the second row with the leftover piece of the first row (offset the end joints of adjoining rows by at least 18 cm). This considerably reduces waste.



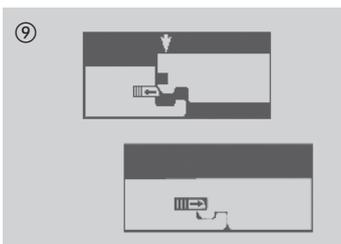
Before laying the remaining rows, it is important to ensure that the first rows are straight and exactly parallel to the wall. When correctly aligned, fix the rows in place with distance spacers. If necessary, the boards can be gently tapped on the long side.



For the third row, peel off the protective film before installing the boards. The film should be removed at a slight angle to prevent it from tearing. Then, starting on the left, the board can be connected and lowered along its long side with plastic dampeners into the already installed rows. Finally, remove protective film from the next board and rotate it downward into place.



Then rotate the board down. Ensure that the short side of the board is flush with the board on its left. By applying a small amount of force on the lateral bevel, the board permanently locks into the substructure. This is how the whole row should be laid, up to the last board. Note: If radiator pipes protrude from the floor, drill or saw a cutout into the board, leaving the required expansion space.



Profile short side
Locking system



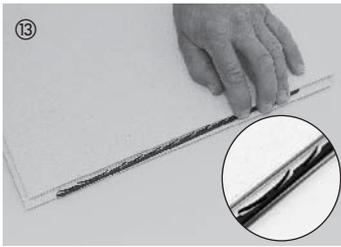
Gently tap along the front edge of the row with the tapping block. Tip: To ensure a strong bond between the boards and the subfloor, we recommend that you walk over each row after installing it. Proceed in this way to install all remaining rows.



Cut to size and fit in the boards of the last row. Leave a gap of 10 to 15 mm between the boards and wall.



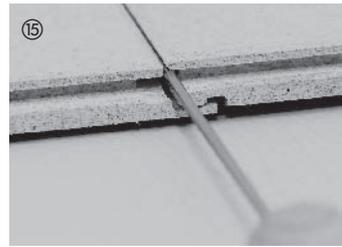
When you have finished installing the floor, disassemble the first two rows again, remove the protective film (see step 7) and reinstall them.



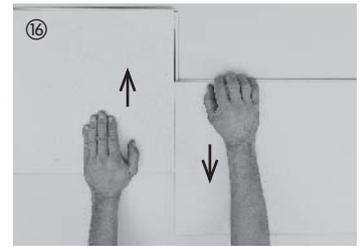
First, however, the dampener removed in picture 3 can be reinstalled in the connection on the short side. Please pay attention to the plastic dampener bevel that faces up when replacing the dampener. The split end (see picture detail) will point to the long side of the groove if the dampener is positioned correctly.



In order to maintain the expansion gap, the profiling system can be left out at doors or crossover points between rooms that measure up to 150 cm in length. However, a separation is necessary in any case. This also applies if the same floor is to be laid in the adjoining room. Here, an expansion gap of min. 10mm is to be maintained. This expansion gap must be closed with a matching colour silicon. First of all, a 10mm thick PE round sealing cord is to be pressed into this gap. As a rule, a fine saw must be used to cut a gap the thickness of a board in wooden door frames to allow Celenio to expand.



Tips for the unlocking of Top Connect: The boards can also be removed with the Celenio unlocking help system, as long as they have not yet been glued. The unlocking help system must be inserted from the long side of the groove into the groove of the short side.



If the unlocking help system is not available, the boards can be removed in rows and then pushed apart in a parallel direction, provided they have not yet been glued.

Laying instructions

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Measures to take before installation

Do not open the cartons prior to installation. Store and climatise the unopened cartons inside. New constructions to be closed in with air conditioning or heating units during the winter months. Recommended room conditions for installation are 18 °C (65 °F).

Important: Prior to installation, inspect each Celenio tile in daylight for any visible faults or damage and also check colour and structure. No claims are accepted once Celenio tiles have been installed.

When installing, mix Celenio boards from different cartons to compensate for material-related colour variations.

Celenio colours vary according to the influence of UV light (daylight).

Elastic and textile floor coverings must be completely removed leaving no remains.

Celenio ComforTec is not designed for full glue-down installation or for use in bathrooms.

The movement tendencies of a Celenio ComforTec floor are comparable to a floating installation of a Celenio-Top Connect floor. Talks should be carried out in advance with the technical department regarding the installation especially in case of permanent partial load due to heavy furniture (e.g. heavy kitchenette equipment).

Direction of installation:

The direction of laying normally depends on the main source of light fall in the room, e.g. French windows. The boards should run parallel with the entering light for best appearance. However, the proportions of the room can also be emphasised by skilled selection of the direction in which your parquet is laid. Light-colours make small rooms appear larger. With ComforTec installation in large areas over 10 m (33 ft.) in length or width, an expansion joint must be allowed for.

Celenio ComforTec is not approved for application in commercial/ public or other heavily frequented areas.

Subfloor:

Suitable subfloors:

- Cement (CT) or poured cement floors (CFT)
- Sanded with anhydrite or cast anhydrite screed
- V100 (E1) installation or OSB board
- Floor pavement made from plaster or concrete fibre
- Mastic asphalt screed (AS)
- mineral sub floors

Subfloor testing and preparation:

The subfloor must be tested before laying according to the German standards VOB, Part C, DIN 18 365 "Flooring Works" and DIN 18 356 "Parquet Works." The subfloor must be dry, absorbent, clean and even, compression- and tension-proof, and free of cracks. Make sure the sub floor has been primed and cleaned thoroughly from oil, grease, wax, paint, plaster, dust and other deleterious substances that may prevent or reduce adhesion. Use mineral subfloors with a suitable base for optimal glue strength. To optimize the adhesive strength we recommend you treat mineral subfloors with HARO Primer CT.

Difficult subfloors, such as old mastic asphalt floors, very absorbent or sandy cement floors, ceramic floors, etc., require special subfloor preparation to ensure a proper substrate for laying. In this case, prepare the subfloor with appropriate filler or compound according to manufacturer's specifications. With mastic asphalt floors, it is also essential to remove excess or loose siliceous sand with a disk sander and vacuum with an industrial vacuum cleaner.

Gluing is not possible on unsound subfloors, old PVC flooring or glued down felt carpeting. If in any doubt, do not hesitate to ask our technical service department (info@haro.de).

Note:

When working on fixed floors and components that are not covered with skirting, from a length of 150 cm (5 ft.) the expansion gap is no longer to be sealed with silicon, but rather must be covered with a suitable moulding system.

Moisture check:

The subfloor must be checked in a workmanlike manner by using a suitable measuring instrument (CM meter) in order to verify compliance with the required limit moisture content for laying the floor covering.

Limit moisture content without underfloor heating: Cement or poured cement floors ≤ 2.0 CM (weight)%; anhydrite or anhydrite cast floors ≤ 0.5 CM (weight)%

Limit moisture content with underfloor heating: Cement or poured cement floors ≤ 1.8 CM (weight)%; anhydrite or anhydrite cast floors ≤ 0.3 CM (weight)%

When laying your floor in rooms on or below grade, it is necessary that a state-of-the-art or DIN-compliant moisture barrier be installed.

Please observe the preparatory measures which you find on our web site and in the "Installation over Underfloor Heating" section of these Laying Instructions. Prior to installation, a signed Record of Preparatory Subfloor Heat-Up Phase must be submitted by the client.

The floor manufacturer's instructions are of crucial importance when testing for moisture, in particular on mineral subfloors.

Installation over underfloor heating:

When installing your floor over underfloor heating, the screed must be laid in accordance with the German DIN 1853 standard. Before you start laying your parquet floor, please verify that the underfloor heating system has been installed in compliance with DIN EN 1264 and DIN 4725 and that the proper preparatory heat-up phase has been completed. Detailed information and instructions are available from your local authorised dealer.

Care:

Dry cleaning: It is generally sufficient to clean Celenio dry using a mop, soft broom or vacuum cleaner.

Damp cleaning: We recommend damp mopping your floor surface regularly with Celenio Basic Cleaner or Clean & Green Natural diluted in water. Cleaning frequency depends here on the wear and tear your floor is subjected to. By buffing the treated surface dry with a HARO Polishing Cloth you give the Celenio surface an even shine.

Please note: Do not use soap-based detergents, abrasive cleaners, scouring powder, steel wool or wax for cleaning and maintenance. Always avoid letting water stand on the surface.

Warning note: Steam cleaning machines are not suitable for cleaning Celenio.

Climatic conditions:

What is good for people is also good for the high-grade woods of your Celenio floor. A room temperature of 20° C (68 °F), a relative humidity of about 50–60 % is required. In order to keep the air humidity constant, especially during hot periods, we recommend you use a humidifier. This will prevent any extreme drying out of the floor. Air humidifiers should be switched on right from the beginning of the heating season.

Additional protection for your floor:

To preserve the quality and beauty of your floor we recommend using protective pads under chairs and furniture legs. The castors of armchairs and office chairs must comply with German Standard DIN 68 131. Use only lined rollers of type W (soft). As underlay for armchairs and office chairs we recommend the use of polycarbonate mats.

12/10 Subject to modification in the interest of technical development.